DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

WELDING INSPECTION REPORT

Resident Engineer: Casey, William **Report No:** WIR-029231 Address: 333 Burma Road **Date Inspected:** 07-Mar-2013

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1530 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Job Site

CWI Name: CWI Present: Yes No As noted below. **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component:** Tower

Summary of Items Observed:

Quality Assurance Inspector (QA) William Clifford was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

Ultrasonic Testing of ESW

ESW F. Face A:

This QA performed continued Ultrasonic Testing (UT) on approximately 500mm of Tower Electroslag Complete Joint Penetration (CJP) shear plate weld designated as "ESW F" face A. Location (Y=5000~5500) of this weld was inspected using this testing method.

This QA observed two (2) recordable longitudinal indications at the time of testing.

This QA observed two (2) recordable transverse indications at the time of testing.

This QA performed UT of weld designated as "ESW F" in accordance with the approved supplemental procedure for confirmation and evaluation of planar type defects. Tandem report for work performed on this date will be completed by QC technician and signed by both QA/QC parties. Items listed on tandem report reflect indications agreed upon by QA/QC. Please see TL-6027 for complete listing of QA recorded indications.

Electroslag Weld Committee

This QA attended a meeting in the Tower ESW work area at the 9m elevation.

During this meeting this QA performed information only Utrasonic Testing (UT) of ESW F for those in attendance to provide examples of previously discovered transverse and planar indications discovered during QC and QA

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tandem Ultrasonic Testing.

In preparation for this meeting this QA performed pre-inspection procedural testing together with SMR Aaron Prchlik and QA Art Peterson; in order to research the accuracy of the proposed "pitch-catch" Ultrasonic Testing method for use in testing ESW welds. The primary purpose of the "pitch-catch" method as it is proposed is to ascertain the planar aspects of longitudinal indications previously discovered using the conventional shear wave method of UT.

Information only testing is still in process and findings will be used to produce an approved testing procedure at a later time.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Conversation was relevant to testing performed during this shift.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas (916) 764-6027, who represents the Office of Structural Materials for your project.

Inspected By:	Clifford,William	Quality Assurance Inspector
Reviewed By:	Mertz,Robert	QA Reviewer